

10-005-00004



STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR QUALITY  
655 S. Bay Road, Suite 5N  
DOVER, DELAWARE 19901

Telephone: (302) 739 - 9402  
Fax No.: (302) 739 - 3106

August 12, 2011

Section Chief  
Permit Program Section (**3AP11**)  
United States Environmental Protection Agency  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

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3AP30

ATTENTION: Kathleen Cox  
Chief, Permit Review Section

Dear Ms. Cox:

Enclosed is a final federally enforceable 7 **DE Admin. Code** 1102 Permit (Pre-Construction Review) for Mountaire Farms of Delaware, Inc. having a facility at 29106 John J. Williams Highway, in Millsboro, Delaware. This federally enforceable 7 **DE Admin. Code** 1102 permit (Pre-Construction Review) was issued in accordance with the requirements of 7 **DE Admin. Code** 1102 Section 11.2.10, 12.4 and 12.5. The Department will administratively amend the facility's Title V Permit (**AQM-005/00004 (Renewal 2)**) to include all applicable requirements once the equipment has been constructed and a construction to operation inspection has been conducted.

Sincerely,

Joanna L. French, P.E.  
Managing Engineer  
Engineering & Compliance Branch

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pc: Dover (Title V) File  
Paul Foster  
Melanie Smith  
Emlyn Velez-Rosa – EPA Region III



10-005-00004

**\*\*Please Note\*\***  
**New Address**



STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR & WASTE MANAGEMENT

AIR QUALITY MANAGEMENT  
SECTION

Blue Hen Corporate Center  
655 S. Bay Road, Suite 5 N  
Dover, Delaware 19901

TELEPHONE: (302) 739 - 4791  
FAX NO.: (302) 739 - 3106

January 28, 2011

Section Chief  
Permit Program Section (**3AP11**)  
United States Environmental Protection Agency  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

ATTENTION: Kathleen Cox  
Chief, Permit Review Section

Dear Ms. Cox:

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Sincerely,

Joanna L. French, P.E.  
Managing Engineer  
Engineering & Compliance Branch

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pc: Dover (Title V) File  
Paul Foster  
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**\*\*Please Note\*\***  
**New Address** →



STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR & WASTE MANAGEMENT

AIR QUALITY MANAGEMENT  
SECTION

Blue Hen Corporate Center  
655 S. Bay Road, Suite 5 N  
Dover, Delaware 19901

TELEPHONE: (302) 739 - 9402  
FAX NO.: (302) 739 - 3106

January 28, 2011

**Permit: APC-2011/0059-CONSTRUCTION (FE)**

Mountaire Farms of Delaware, Inc.  
Central Vacuum

Millsboro Complex  
P.O. Box 1320  
Millsboro DE 19966

ATTENTION: Ms. Beth Sise  
Environmental Manager

Dear Ms. Sise:

Pursuant to the 7 **DE Admin. Code** 1102 Section 2 and Section 11, approval by the Department of Natural Resources and Environmental Control is hereby granted for the construction of a Walinga 614CV30 central vacuum system located at the Millsboro Complex in Millsboro, Delaware, in accordance with the application submitted on Form Nos. AQM-1, AQM-2, AQM-3.1, AQM-4.6, and AQM-5 dated October 28, 2010 signed by Paul Downes, President, and Form Nos. AQM-1001, AQM-1001B, AQM-1001K, AQM-1001N, AQM-1001V, AQM-1001W, AQM-1001X, AQM-1001Y, AQM-1001CC, and AQM-1001BB dated November 12, 2010 signed by Paul Downes, President.

This permit is issued subject to the following conditions all of which are federally enforceable except Condition 6.1.2 and 2.3:

**1. General Provisions**

- 1.1 This permit expires on December 30, 2011. If the equipment covered by this permit will not be constructed by December 30, 2011 a request to extend this construction permit must be submitted by November 16, 2011. [Reference 7 **DE Admin. Code** 1102 Section 11.10 dated 6/1/97]
- 1.2 The project shall be constructed in accordance with the information described above. If changes are necessary, revised plans must be submitted and a supplemental approval issued prior to actual construction. [Reference 7 **DE Admin. Code** 1102 Section 11 dated 6/1/97]
- 1.3 Upon presentation of identification, the Company shall authorize officials of the Department to:
  - 1.3.1 Enter upon the Company's premises where a source is located or an emissions-related activity is conducted, or where records that must be kept under the terms and conditions of this permit are located. (This condition was taken from Permit: **AQM-005/00004(R2)** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.1 dated 12/11/00])

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- 1.3.2 Have access to and copy, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.2 dated 12/11/00]
  - 1.3.3 Inspect, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.3 dated 12/11/00]
  - 1.3.4 Sample or monitor, at reasonable times, any substance or parameter for the purposes of assuring compliance with this permit or any applicable requirement. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.4 dated 12/11/00]
  - 1.4 This permit may not be transferred to another location or to another piece of equipment or process. [Reference 7 **DE Admin. Code** 1102 Section 7.1 dated 6/1/97]
  - 1.5 This permit may not be transferred to another person, owner, or operator unless the transfer has been approved in advance by the Department. A request for a permit transfer shall be received by the Department at least thirty (30) days before the date of the requested permit transfer. This request shall include:
    - 1.5.1 Signed letters from each person stating the permit transfer is agreeable to each person; and
    - 1.5.2 An Applicant Background Information Questionnaire pursuant to 7 Del. C., Chapter 79 if the person receiving the permit has not been issued any permits by the Department in the previous five (5) years.
- Approval (or disapproval) of the permit transfer will be provided by the Department in writing. [Reference 7 **DE Admin. Code** 1102 Section 7.1 dated 6/1/97 and 7 Del. C., Chapter 79]
- 1.6 The Company shall, upon completion of the construction, installation, or alteration of each emission unit, request in writing that the Department transfer the terms and conditions of this construction permit into the 7 **DE Admin. Code** 1130 operating permit. [Reference 7 **DE Admin. Code** 1102 Section 11.5 dated 6/1/97]
  - 1.7 The request shall contain the following information, and shall contain the following language from the responsible official: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." [Reference 7 **DE Admin. Code** 1102 Section 11.5.1 dated 6/1/97]
    - 1.7.1 A description of the compliance status, a complete schedule, and a certification of compliance for the equipment, facility, or air contaminant control device with respect to all applicable requirements, in accordance with 7 **DE Admin. Code** 1130 Section 5.4.8 and 5.4.9; and
    - 1.7.2 A statement of the methods used to determine compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods.

- 1.8 Upon satisfactory demonstration that the equipment, facility, or air contaminant control device complies with all applicable requirements and all terms and conditions of the construction permit, and not prior to the expiration of the EPA review period provided for in 7 **DE Admin. Code** 1102, Section 12.5, the Department shall transfer the specified terms and conditions to the 7 **DE Admin. Code** 1130 permit via the administrative amendment process specified in 7 **DE Admin. Code** 1130. *[Reference 7 DE Admin. Code 1102 Section 11.5.2 dated 6/1/97]*
- 1.9 The provisions of 7 **DE Admin. Code** 1102 Sections 2.1, 11.3, and 11.5 shall not apply to the operation of equipment or processes for the purpose of initially demonstrating satisfactory performance to the Department following construction, installation, modification, or alteration of the equipment or processes. The Company shall notify the Department sufficiently in advance of the demonstration and shall obtain the Department's prior concurrence of the operating factors, time period, and other pertinent details relating to the demonstration. *[Reference 7 DE Admin. Code 1102 Section 11.12 dated 6/1/97]*
- 1.10 The owner or operator shall not initiate construction, install, or alter any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department pursuant to 7 **DE Admin. Code** 1102, and, when applicable, 7 **DE Admin. Code** 1125, and receiving approval of such application from the Department; except as exempted in 7 **DE Admin. Code** 1102 Section 2.2. *[Reference 7 DE Admin. Code 1102 Section 2.1 dated 6/1/97]*

## 2. Emission Limitations

- 2.1 Particulate Matter (PM) Emissions
  - 2.1.1 Particulate emissions shall not exceed 0.2 grains of particulate matter per standard cubic foot of exhaust air from the dust collector. **(This condition will be transferred to Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1105 Section 2.0 dated 2/1/81]*
- 2.2 No person shall cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty percent (20%) opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period. **(This condition was taken from Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1114 Section 2.1 dated 7/17/84]*
- 2.3 Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution. **(This condition was taken from Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1119 Section 2.1 dated 2/1/81]*

## 3. Operational Limitations

- 3.1 The dust collector shall be operating properly during all periods of vacuum use. **(This condition will be transferred to Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1130 Sections 6.1.3.1 dated 12/11/00]*
- 3.2 The Company shall demonstrate compliance with the emission limitations by the proper use of the dust collector to control particulate emissions. **(This condition will be transferred to Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1130 Sections 6.1.3.1 dated 12/11/00]*

- 3.3 The dust collector shall be equipped with a pressure differential gauge. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Sections 6.1.3.1 dated 12/11/00]
- 3.4 The pressure differential gauge shall be operating properly when the equipment is operating and in accordance with Condition 4.2. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Sections 6.1.3.1 dated 12/11/00]
- 3.5 Proper operation of the dust collector shall include implementation of a Dust Collector Preventative Maintenance and Malfunction Plan acceptable to the Department. The plan shall include the following minimum requirements: **(These conditions will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Sections 6.1.3.1 dated 12/11/00]
  - 3.5.1 Specifications for the dust collector including minimum and maximum pressure drop readings that define a proper operating range.
  - 3.5.2 Daily monitoring of pressure drop across the dust collector and comparison to the proper operating range.
  - 3.5.3 Quarterly inspection of the dust collector structure for leaks, wear, corrosion, dust accumulation, etc.
    - 3.5.3.1 Routine maintenance as recommended by the manufacturer.
    - 3.5.3.2 Troubleshooting procedures.
    - 3.5.3.3 Required record keeping.
    - 3.5.3.4 Schedule for review and update of the plan.
    - 3.5.3.5 The dust collector shall utilize filter cartridge with an efficiency of at least 99.9%.
  - 3.5.4 Operating hours are limited to 8,736 hours per rolling twelve month period.
- 3.6 At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determinations of whether acceptable operating procedures are being used will be based on information available to the Department, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1101 Section 3 dated 2/1/81 and 7 **DE Admin. Code** 1102 Section 11.6 dated 6/1/97]
- 3.7 All structural and mechanical components of the equipment covered by this permit and in use shall be maintained in proper operating condition. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1101 Section 3 dated 2/1/81 and 7 **DE Admin. Code** 1102 Section 11.6 dated 6/1/97]



**4. Testing and Monitoring Requirements**

- 4.1 The Department reserves the right to require that the owner or operator perform emission tests using methods approved in advance by the Department. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1117 Section 2.2]
- 4.2 For the process equipment and associated air pollution control equipment, the Company shall monitor the following: **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]
  - 4.2.1 The Company shall record the pressure drop across the dust collector at least once each day the system is operating and compare the result to the standard set in the Dust Collector Preventative Maintenance and Malfunction Plan. If the pressure drop is outside the defined range then the Company shall institute corrective action as set in the plan. If the pressure drop cannot be restored to the normal operating range within twenty-four (24) hours, the unit shall be shut down and the Department shall be notified of the deviation.
  - 4.2.2 The Company shall inspect the dust collector according to the schedule set in the Dust Collector Preventative Maintenance and Malfunction Plan.
- 4.3 The Company shall conduct a daily survey during daylight hours when the equipment is in operation to detect the presence or absence of visible emissions according to the following procedure: **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]
  - 4.3.1 "Survey of emission point for the presence or absence of visible emissions" shall be defined as a minimum period of five (5) consecutive minutes.
  - 4.3.2 The detection of the presence or absence of visible emissions shall be in accordance with the procedures of EPA Reference Method 22 (40 CFR 60, Appendix A) paragraphs 4 and 5.
  - 4.3.3 If visible emissions are observed for three (3) consecutive minutes, the observation shall be stopped and corrective actions per Condition 4.4 shall be taken.
  - 4.3.4 This procedure does not require that the opacity of the emissions be determined. Since this procedure requires only the determination of whether a visible emission occurs and does not require the determination of opacity levels, observer certification according to the procedures of EPA Reference Method 9 (40 CFR 60 Appendix A) is not required. However, it is necessary that the observer is educated on the general procedures for determining the presence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor).
- 4.4 If visible emissions are observed, the Company shall initiate troubleshooting procedures as outlined in the Dust Collector Preventative Maintenance and Malfunction Plan. **(This**

condition will be transferred to Permit: **AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130** Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]

- 4.5 The Company shall conduct a daily survey of visible emissions to establish compliance with the visible emissions standard of Condition 2.2 for the vacuum filter vent. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130** Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]

## **5. Record Keeping Requirements**

- 5.1 The Company shall maintain, at a minimum, all of the information required by this permit for a minimum of five (5) years from such information's date of record. **(This condition was modified from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130** Section 6.1.3.2.2 dated 12/11/00]
- 5.2 Records of all test data shall be maintained. This data includes, but may not be limited to:
- 5.2.1 The date, place and time of sampling measurements;
  - 5.2.2 The date(s) analyses were performed;
  - 5.2.3 The Company or entity that performed the analyses;
  - 5.2.4 The analytical techniques or methods used;
  - 5.2.5 The results of such analyses; and
  - 5.2.6 The operating conditions existing at the time of sampling or measurement.  
[Reference 7 **DE Admin. Code 1130** Section 6.1.3.2 dated 12/11/00]
- 5.3 The following information shall be recorded, initialed, and maintained in a log each day: **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130** Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]
- 5.3.1 Compliance with Conditions 2.2, 2.3, and 4.2.
  - 5.3.2 Operating hours of the vacuum system.
- 5.4 The following information shall be recorded, initialed and maintained in a log each month: **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130** Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]
- 5.4.1 Monthly record of total operating hours for the twelve (12) month period immediately preceding the date of record.
- 5.5 The following information shall be recorded, initialed and maintained in a file: **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130** Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]
- 5.5.1 The Dust Collector Preventative Maintenance and Malfunction Plan shall include:



- 5.5.1.1 Each day, the date, time, and results of the pressure drop across the filter and comparison to the proper operating range.
- 5.5.1.2 All inspections of the filter structure, including the date of inspection, person doing the inspection, and the findings.
- 5.5.1.3 A maintenance log detailing all routine/non-routine maintenance performed.
- 5.5.1.4 Troubleshooting procedures.
- 5.5.1.5 Schedule for review and update of the plan.
- 5.5.1.6 Bag filter efficiency (manufacturer's specification).

## 6. Reporting Requirements

- 6.1 Emission in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department:
  - 6.1.1 Immediately upon discovery and after activating the appropriate site emergency plan to the Department's 24-hour complaint line (1-800-662-8802) any deviation that poses an imminent and substantial danger to public health, safety, or the environment. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.2 dated 12/11/00]
  - 6.1.2 Immediately upon discovery by calling the Environmental Emergency Notification and Compliant number, (800) 662-8802. (State Enforceable Only) **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.3 dated 12/11/00]
- 6.2 Discharges to the atmosphere in excess of any quantity specified 7 DE Admin. Code 1203 **"Reporting of a Discharge of a Pollutant or an Air Contaminant"** shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24-hour complaint line (1-800-662-8802). Discharges in compliance with this permit and excess emissions previously reported under Condition 6.1 of this permit are exempt from this reporting requirement. **(This condition was modified from Permit: AQM-XXX/XXXXX)** [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.5 dated 12/11/00 and 7 Del. C. Chapter 60, Section 6028]
- 6.3 In addition to complying with Condition 6.1 and 6.2 of this permit, any reporting required by 7 DE Admin. Code 1203 **"Reporting of a Discharge of a Pollutant or an Air Contaminant"** and any other reporting requirements mandated by the State of Delaware, the owner or operator shall for each occurrence of excess emissions, within thirty (30) calendar days of becoming aware of such occurrence, supply the Department in writing with the following information:
  - 6.3.1 The name and location of the facility;
  - 6.3.2 The subject source(s) that caused the excess emissions;

